

No 65

Mercury

An inaugural dissertation on the  
 use of Mercury, in the cure of  
 certain diseases; -

Submitted,  
 to the medical Faculty,  
 of the  
 University of Pennsylvania,  
 for the degree of M.D.

By,  
 S. J. Watson.

of North Carolina.

Before the Faculty

Passed March 18<sup>th</sup> 1823

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In numerous instances in the  
 use of mercury, in the case of  
 various diseases:—

Substituted  
 in the medical practice

of the  
 University of Pennsylvania  
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## Introduction.

In treating on this subject we shall consider it  
under the following heads viz:

- |   |        |
|---|--------|
| 1 <sup>st</sup> Its introduction into medicine.   | page 1 |
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## A Dissertation on Mercury &c

Amongst the many interesting subjects which present themselves to our notice, there are but few more worthy of our attentive consideration than Mercury, as applied to the cure of certain diseases.

It was first used as a medicine by the Achians. But they restricted its use entirely to the cutaneous affections; & it was not until about the seventeenth century that Mercury was internally employed. Anterior to that date it was only applied to the superficies of the body, in the form of liniment, ointment, or fumigation. In these forms it was employed in cutaneous affections. And its efficacy in these cases, most probably first suggested its use in Lues Venerea. It is said, the Resperific itate was one of the first preparations used; but it was soon succeeded by a much milder preparation made by triturating the Argentum Vivum itself with Chaparral & other articles which formed a pill similar to the modern "blue pill".

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It was not until about the middle of the seven-  
teenth century that Mercury began to excite gen-  
eral attention in the medical world. And its  
introduction into the cure of fevers, particularly, was  
viewed with much distrust, & great caution was used  
by all in its administration. It may be said that  
the discovery of its utility in many diseases is almost entirely  
derived from the physicians of the United States; for at  
the time that it was generally proscribed in Europe as  
a precarious remedy in the cure of disease, it was counten-  
anced by some of the most distinguished physicians in  
America.

Here too it met with violent opposition, And many  
physicians who had to a certain extent tested its vir-  
tues, & felt impelled with the necessity of its use,  
were often obliged to conceal it from their patients.  
The famous prescription of "ten grains" during the life of  
Prof. Rush was considered by many as a very large  
dose. - But in this, as in many other instances  
the extreme variability of man is conspicuous. And





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This medicine, which but a few years since was  
soured with distrust, & used with extreme caution  
even by the most distinguished physicians, is now  
to be found in the hands of all, from the most  
distinguished <sup>physicians</sup> ~~physicians~~, to the most illiterate and  
ignorant peasant. It has become a panacea,  
the first, and the desidered resort of thousands,  
who seek with avidity a mineral, the virtues of which  
they are unacquainted except from general reputation.

Chapter II.  
On the Modus operandi of Mercury in  
a combined State.

It must ever be lamented that this medicine is so  
generally, & indiscriminably used. Instead of giving  
it to fulfil some clearly defined indication as an  
many other remedies; it is by a large majority of  
Physicians given as a specific for symptoms they  
not how to treat. We repeat that it is to be lamented  
that it should ever have become so popular a remedy  
in the

My dear friend,  
I have just received your letter of the 11th inst. and am  
glad to hear from you. I am well and hope these few lines  
will find you the same. I have not much news to write at  
present, but I thought I would write a few lines to let you  
know I am still alive and well. I have not much news to write  
at present, but I thought I would write a few lines to let you  
know I am still alive and well.

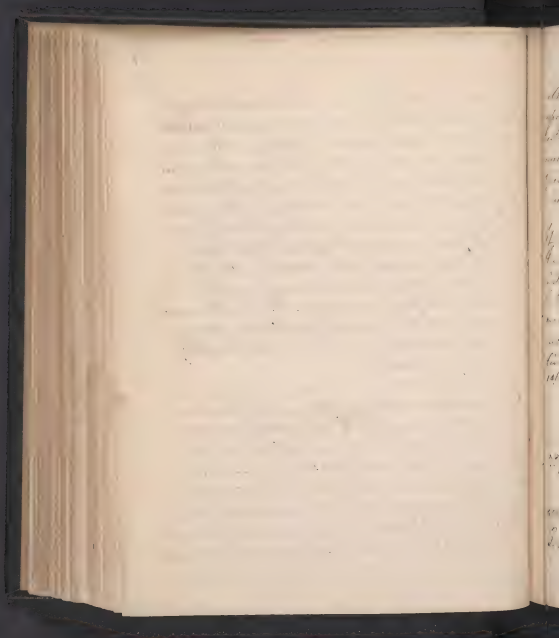
Yours truly,  
Wm. Lloyd Garrison

I have just received your letter of the 11th inst. and am  
glad to hear from you. I am well and hope these few lines  
will find you the same. I have not much news to write at  
present, but I thought I would write a few lines to let you  
know I am still alive and well. I have not much news to write  
at present, but I thought I would write a few lines to let you  
know I am still alive and well.

in the case of medical library, unless the limits to its exaltation, that rules which should govern as in its <sup>very</sup> ~~and~~ <sup>use</sup> could have been more clearly defined. We have long been persuaded, that a treatise on this subject adapted to the demands of the United States, would be of great value to our young practitioners, particularly - provided it was written by a physician of sufficient eminence to make it respectable.

We have been led to this conclusion from having seen it frequently given by men of respectable attainments very imperfectly. It is in the hands of many insolent, & ignorant practitioners a band to cut a knot which they have not the ability or industry to untie.

But it must be remembered to the credit of the medical profession that many of its most distinguished members have at various times devoted themselves speedily to this subject. But we fear that very few, if any, have been able to afford to do its proper place, or to defend with sufficient precision the rule for its application to disease on general principles so as to enable even the best judgments to proceed without



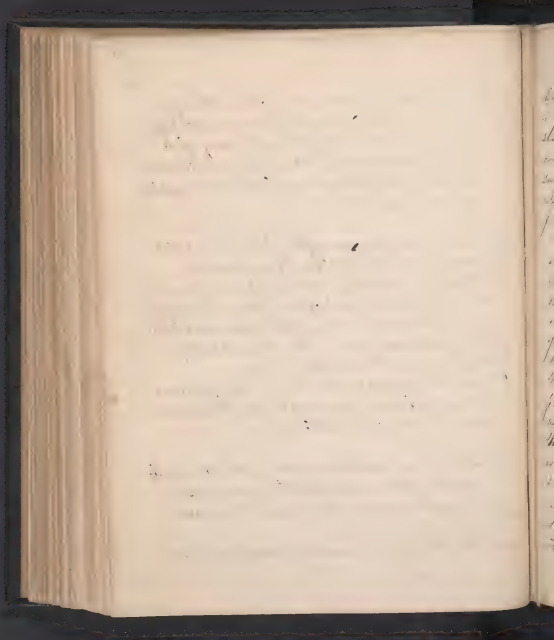
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without frequently abusing it. — And, although,  
experience has enabled man to provide with some  
certainty as to its ultimate effects, yet many of its  
most important bearings, is still unknown, & its modes  
of action in many of the diseases to which it is applied  
is as yet only guessed at. —

It would be a useless consumption of time to advert to  
the many theories, which have from time been  
industriously promulgated as to the medicinal properties  
of Mercury. It will be sufficient for our present  
purpose to glance at some of the most respectable  
authorities on the subject. And these naturally  
divide themselves into two classes viz<sup>t</sup> : —  
1<sup>st</sup> Those who suppose it enters the circulation, & by some  
process unknown, or unexplained, thence stimu-  
lates the morbid matter. —

2<sup>ndly</sup> Those who contend that it removes the disease by  
counter-action, & from the strong impression  
it makes overcomes the original disease. —

Both these theories have been supported by able, &



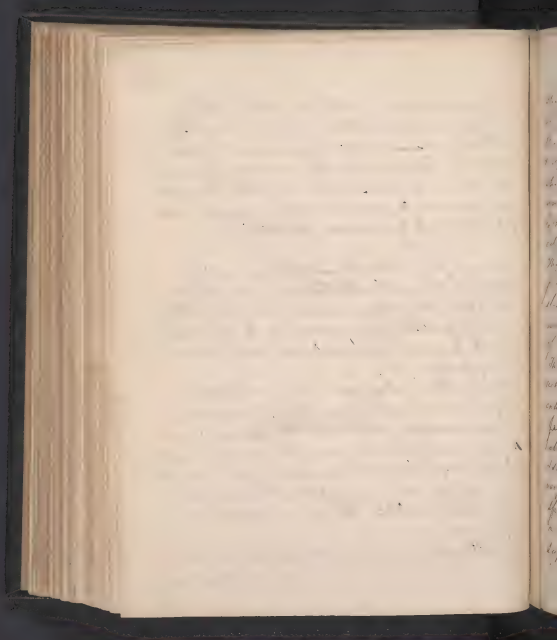
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distinguished men, but the weight of authority  
is in favor of the latter opinion. It had been  
thought by several distinguished men, that mercury  
could be detected in the blood & secretions of venereal  
subjects to a perfect salivation. To settle this question  
many experiments were made with very different results  
from those made by Boerhaave, Hamilton, & others.

Amongst these Doctors (Physicists) of this city exists a  
number of experiments with this virus. In patients  
(laboring) under perfect salivation he could not detect  
a single particle of mercury either in the blood or secretion  
of fresh urine, as if it existed, it entirely eluded  
his researches.

Mr John Hunter whose fame is universal, & whose  
physiological researches, for many years, & whose name  
has not been exceeded, remarks, that "the efficacy of  
Mercury in Syphilis depends on its general, permanent,  
extensive operation on the system, by which it induces  
& keeps up an action incompatible with that morbid  
action which constitutes the disease until the virus is  
destroyed."

That Mercury in a combined state does act as a powerful  
stimulant





stimulant to the gastric system is at present considered on all hands; and this opinion is strengthened by the fact that it should be derived from the juice of the most delicate & digestible vegetable, & its exaltol is a strongly sweet somewhat similar to that drawn from persons labouring under an extraordinary affection, & obtained by means of a siphon when a low febrile state is generally induced by evacuation.

That it acts as a stimulant, we infer also from the following considerations, 1<sup>st</sup> It increases the action of the stomach & intestines. 2<sup>d</sup> It acts also very powerfully on the glandular system, increasing <sup>these</sup> secretions & stimulating the discharge from the skin. —

This stimulant effect on the human system must not be confounded with that which arises from the exhibition of Alcohol. Etia se it is of a nature qui passi va concluding the remarks on the modus operandi of lactogen. an objection to its curative effect in dyspepsia & some other diseases simply by exciting a counter disease very naturally suggests itself. — If it has nothing specified in its action but was useful only by inducing a mercurial disease; why might not we remove dyspepsia (for in this instance only these seems like a horridum exemplum)

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reaction to the venereal sale) by giving for instance  
the Acetate of Potash? With this we may keep  
up constantly a morbid action on the stomach (through  
the action the other organs of the body) which will  
destroy eventually the morbid action induced by the  
original disease. Yet it is generally believed that  
in obstinate cases of syphilis no other remedy will answer.

We must <sup>now</sup> alter markedly to ascertain with any degree  
of certainty its mode of operation; instead of wasting  
time unceasingly in attempts which must be futile;  
We shall pass to the consideration of ~~the~~ Mercury  
as a purgative

### Chapter III Use of Mercury as a purgative

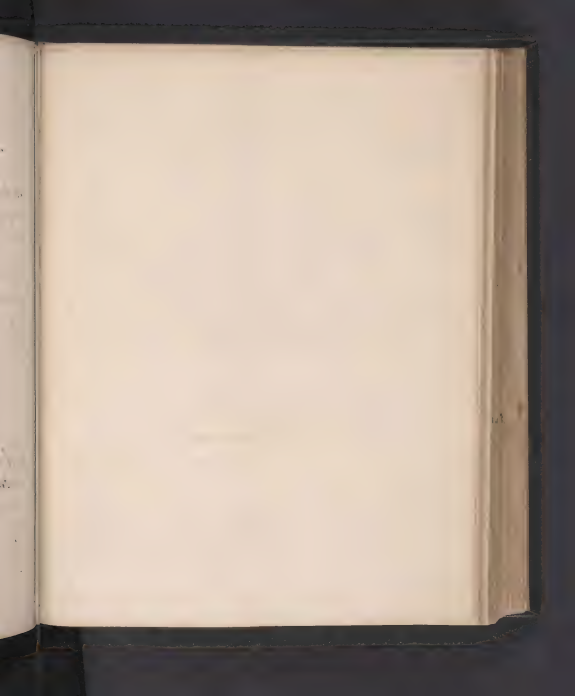
With this view it has for several years superseded  
all other purgatives. And its utility  
in many cases is indisputable. But in this as in  
many other instances the extreme febleness, &  
plethora <sup>of men</sup> have induced them to run into extremes.  
But a few years since it was used with distinct  
& caution

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The first of these is the  
fact that the British  
Government has been  
unable to secure the  
cooperation of the  
United States in the  
present crisis.

The second is the  
fact that the British  
Government has been  
unable to secure the  
cooperation of the  
United States in the  
present crisis.

### The British Government

The British Government  
has been unable to secure  
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present crisis.



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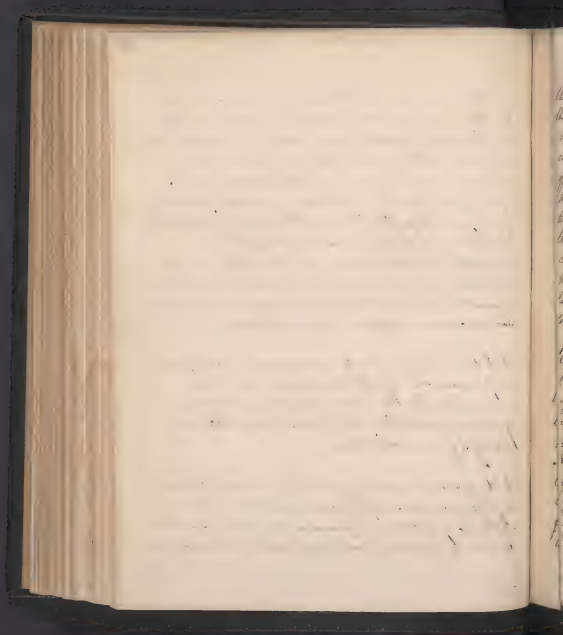
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& caution, is now exhibited for every frieblow complaint.  
In the Southern States particularly it is the remedy  
in Catarrh, Erysipelas, &c. &c. without any special  
reference to the particular stage of the disease in  
which it might be proper, or at least innocuous.  
"Galap. Solumel" have become so prevalent on the  
Atlantic as "tin stea" were in the time of Dr. Keach  
in the case of Yellow fever. And although they are  
frequently subjects to some of the unpleasant, & by  
sometimes dangerous diseases which arise from its indis-  
criminate use, so strong is popular opinion in its favor  
that no change is effected in public servants. —

But this indiscriminate, & we might properly add  
on general use of the medicine is not by any  
means restricted to adults only, for in consequence  
of its easy exhibition it has become almost the only  
remedy for our children.

Nothing is more common, says one of our most distinguished  
physicians, than a physician is called in to see a  
child laboring under some serious ailment, & then  
for him to prescribe Solumel largely with directions to repeat  
the use





the dose every day. In three or four days he returns, & then tells us, "inform the distressed parents that their child labors under Hydrocephalus internus. A disease comparatively mild & curable in by the (improper use of Mercury converted into one of the most formidable malades. — He continues by saying, "that the determination of blood to the head will be <sup>an</sup> considerable thing. I then admit this determination is increased by the calomel. From some cause or other the calomel may not have operated at all, or if it does, not sufficiently, & finally, to counteract its deleterious effects; & effusion often is the consequence. —

We object too, to its indiscriminate use in the disease of children from a knowledge of the fact that most mothers in order to tranquillize their children cannot be prevented by the authority of their Physicians from giving it during the operation of the medicine. And in febrile affections generally, the thirst of the little sufferers is so great that it is almost impossible to deny them the gratification of a little water. This frequently repeats often a source of much evil to the patient. We are aware that these facts of themselves

The first of these is the  
 fact that the population of  
 the country has increased  
 very rapidly in the last  
 few years. This is due to  
 a number of causes, the  
 most important of which  
 are the discovery of gold  
 and silver, and the  
 opening of the country to  
 settlement. The result  
 has been a great  
 increase in the number  
 of people living in the  
 country, and a  
 corresponding increase in  
 the demand for land.

The second of these is the  
 fact that the country is  
 becoming more and more  
 settled. This is due to  
 the fact that the country  
 is becoming more and more  
 attractive to settlers. The  
 discovery of gold and silver  
 has made the country  
 more attractive to settlers,  
 and the opening of the  
 country to settlement has  
 made it more attractive to  
 settlers. The result has  
 been a great increase in  
 the number of people  
 living in the country, and  
 a corresponding increase in  
 the demand for land.

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themselves are not sufficient to preclude its use when it becomes absolutely necessary, yet when a disease is easily managed by milder antacids, & the greater number are) these should undoubtedly be preferred. We have been more particular in these remarks than we otherwise should have been, had we not seen this medicine so frequently given to children for trifling affections (which required scarcely any thing for their cure) nor, on account of its being tasteless, & therefore easily exhibited —

Not a little has been said of the use of calomel in febrile affections: & no article in the *Materna Medica* is more generally employed as a purgative, alone or in combination with jalap, Castor oil &c.

It can be often properly given in these affections, yet we would not generally recommend it as a purgative unless we had some specific effect in view; unless the fever was associated with some circumstances in which we could call in the specific effects of the medicine as an auxiliary. —

No respectable physician in the present enlightened age would prefer calomel as a purgative in acute inflammation.

*[Faint, illegible handwriting on lined paper, possibly a ledger or account book. The text is too faded to transcribe accurately.]*

*[Faint, illegible handwriting on the right edge of the page, possibly a continuation of the text from the left page.]*

inflammation of any of the organs of the body, who could perform any of the purging. Neutral salts. Dissections show that in most instances where fevers terminate fatally some of the viscera of the body are inflamed. Blood drawn from the arm during synochal fever exhibits the same appearances, as in Erysipelas or common phlegmonous inflammation. Hence in many instances we could not on general principles prefer calomel to other medicines better calculated to depress moderate arterial action.

In certain conditions of the alimentary canal it may be used with advantage, where for instance there was much torpor pervading the stomach & intestinal tube, with an engorgement of the liver. Perhaps in those cases from the explicable difficulty of conveying supply to head for the glands of the body it might be of considerable service. In cases too of suddenly obstructed bile in the acutest stage of fever where the usual depleting remedies had failed to remove such obstruction, it might be used, as well as in those cases that were with augmented or protracted in consequence of some cerebral obstruction. It will be unnecessary to enter into a minute detail of the

Handwritten musical notation on a single page of a manuscript. The page contains approximately 15 staves of music, written in a cursive, historical style. The notation includes various notes, rests, and clefs, though the specific details are difficult to discern due to the image quality. The paper is aged and slightly discolored.

of the particular cases to which it may or may not be appropriate; the limits generally assigned to a thesis will not permit. From what has been said they may be inferred. — Dismissing therefore any further reflections on its use as a purgative we shall next consider its use as a Sialagogue. —

#### Chapter IV. Use of Mercury as a Sialagogue

Mercury is an agent to produce a copious salivation attending which is more injurious than in any other way.

It is too frequently the case that physicians particularly in its application to fever are entirely mistaken. No sooner have they partially cleared the alimentary canal, than they commence with small doses of the mercurial with a view to produce a ptyalism, when of these were no other objections to its use, it would be impossible to induce it from the high degree of febrile action that exists. It is now generally believed that there is a "salivary point" at which Mercury acts with the greatest promptness & in the smallest quantities. Where shall we fix this point?  
Not

Handwritten text at the top of the page, consisting of several lines of cursive script.

Handwritten title or section header, possibly starting with 'V'.

Main body of handwritten text, consisting of approximately 10-12 lines of cursive script.



Not in a state of health, when the functions of the body  
<sup>are</sup> ~~more~~ vigorous: nor in a condition of the body where apart  
or the whole of the several systems <sup>are</sup> ~~were~~ in a state of  
imitation. To produce a mild, sufficient physicism  
we would prefer that state of the system which was rather  
below the healthy standard, - when it did not greatly  
transcend that point —

We would not think it proper to introduce <sup>any</sup> into  
the system with a view to excite a physicism when the  
action was steadily above the healthy standard, because  
it is generally impracticable, when it is excited in the  
those circumstances it does not show itself <sup>in</sup> that benign  
manner which it does in the opposite state of the system.

We have hinted above that we would object to its use as a  
general rule in persons greatly debilitated, which may seem  
to contradict what has been heretofore said "that it acts  
as a stimulant to the heart & arteries". To reconcile this  
seeming contradiction, we remark <sup>as before</sup> that it most probably does  
not act as the stimulants of the Materia Medica,  
if it did the great emaciation & debility that follows  
a salivation may subject the patient to all the diseases  
which await a greatly debilitated state of the body, such  
as dyspepsia &c. &c. Upon the whole we should advise  
little of

My dear Mother  
I have just received your letter of the 10th inst. and am  
glad to hear from you. I am well and hope this finds you  
the same. I have been thinking much of late of the  
future of our country and of the state of the world.  
I feel that we are in a very critical position and  
that the future of our country depends upon the  
conduct of the people. I hope that you will be  
able to do something for the good of our country.  
I am, dear Mother, your affectionate son,  
John F. Kennedy

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should of prescribing Calomel with this view in fever, unless  
 in protracted cases when was either a clear ichthemia  
 or remission of pulse rather soft, & compressible, the tongue  
 moist - the skin soft &c. - In this view of the applica-  
 tion of Mercury to the cure of fevers was on supported by  
 professor Thompson, who in speaking of Bilious rem-  
 edies, & I am clearly of opinion that the disease is highly  
 bilious requiring for its cure strong mercurial purg.  
 Whether it be expedient to use the medicine to a point  
 of salivation, I am not prepared to pronounce decisively.  
 As a general rule it obviously cannot be necessary.  
 And again in speaking of Yellow Fever he observes, "The Mer-  
 curius (Calomel) was applied not only to open the bowels  
 especially but to excite salivation. At first this plan  
 was deemed very greatly efficacious, so much so indeed  
 that in the enthusiasm of the moment, it was pronounced  
 that death never took place after Mercury evinced  
 its effects on the system. But a cooler & more deliberate  
 observation soon exposed the illusion, & all came  
 ultimately to distrust the propriety of the practice."  
 (Thorp. Vol. 2. 276 & 8)

In the winter of 1820 I was informed by a respectable com-  
 pendent that two modes of practice prevailed in the physician  
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[illegible]

1  
New York in the treatment of Typhus Febr. During  
the three months that Doctor Hosack attended the  
infirmary there were upwards of thirty cases of Typhus  
Febr., which he treated in a remarkably mild manner.  
Giving mild purgatives, gentle diaphoretics, with the  
application of cool water to the superficies of the body.

Out of this number only 3 or 4 patients died. He was  
succeeded by Doctor Francis who invariably endeavored  
to produce a salivation, the result from an equal number  
was very greatly in favor of Doctor Hosack's practice.

And we may mention that this practice of salivating  
generally infelicitous efforts has its origin (as it has not  
its origin its use has been much encouraged) in the belief  
that after a pyrexia takes place, infuses the patient  
generally recovers. — And it was to this circumstance alone  
perhaps that Falanul gained much of celebrity in the  
case of fevers, particularly the Yellow Fever (See Chapman  
Thesis: vol. 2: p. 296.) — This belief has unfortunately led  
to very erroneous practice. It is usual with many of  
the Southern physicians as soon as they have exhibited an  
emetic & Calthartus, perhaps, dephracted a small quantity  
of blood, to commence with some quantity of Calanul  
with

1848

My dear Sir,  
I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the above named subject. I am sorry to hear that you are not satisfied with the result of the examination. I have been very anxious to see that the work was done to the best of my ability, and I trust that the result will be satisfactory to you.

I have been very anxious to see that the work was done to the best of my ability, and I trust that the result will be satisfactory to you. I have been very anxious to see that the work was done to the best of my ability, and I trust that the result will be satisfactory to you. I have been very anxious to see that the work was done to the best of my ability, and I trust that the result will be satisfactory to you.

applied by the strong mechanical instrument rubbed on the surface of the body, thinking and aware already, aware that if they can interrupt the disease, produce a pyrexia before mortal symptoms appear, & the patient is saved from danger. - This obviously has two pernicious tendencies. Given too early it rarely affects the mouth at all, aggravates all the symptoms, & what is worse, renders better remedies, which in their way to salivate, are neglected or forgotten. -

We believe in fever where phlogæsa is induced that it is owing to the same cause, which produces a free & healthy perspiration in a protracted case of fever, that they are the effect of a Crisis & not the cause of it.

for many cases where physicians give Calomel prematurely  
their patients sink under the disease before salivation can  
be induced; at other times when from the strength of  
the constitution aided probably by other remedies, the patient  
bears off against the effects of the disease, a crisis  
takes place, a gentle loosening of the bowels is the con-  
sequence & not the cause of it.

Where for instance in fever when it was thought <sup>more</sup> during  
the course of it to give a pill of Calomel of 5 or 6 grains  
thought for the purpose of producing an evacuation.

1. The first part of the text discusses the importance of maintaining accurate records of all transactions, including sales, purchases, and expenses. It emphasizes that proper record-keeping is essential for determining the correct amount of tax liability.

2. The second part of the text describes the various methods used to calculate the tax liability, including the use of tax tables and the application of various deductions and credits. It also discusses the importance of understanding the tax laws and regulations that apply to the taxpayer's situation.

3. The third part of the text discusses the various ways in which a taxpayer can pay their tax liability, including by check, credit card, or direct payment to the IRS. It also discusses the importance of paying taxes on time to avoid penalties and interest.

4. The fourth part of the text discusses the various ways in which a taxpayer can claim a refund, including by filing a refund claim with the IRS or by requesting a refund from the state. It also discusses the importance of understanding the rules and regulations that apply to claiming a refund.

5. The fifth part of the text discusses the various ways in which a taxpayer can avoid or minimize their tax liability, including by using tax planning strategies and by taking advantage of various tax incentives and deductions. It also discusses the importance of consulting with a tax professional to ensure that the taxpayer is taking full advantage of all available opportunities.



the succeeding morning, we have generally expected, shewed with pleasure as a favorable symptom a gentle hoarseness of the voice; yet we repeat again that we do not look upon it as the cause, but as the result of returning health.

For Syphilis Mercurial has for many years stood unchallenged;  
the disease which was once so pernicious to civilization as  
well as savage nations has at length met with a <sup>temporary</sup> complete  
check in ~~Mercury~~. Whether this disease can be removed by  
any remedy except this is a question which I admit of  
some doubt. In the early stages of the disease before  
the system becomes contaminated, ~~the~~ it certainly cannot  
be removed, as the disease generally yields readily to  
local applications. But when <sup>the</sup> disease becomes general,  
although we will not say that there is no true remedy, yet  
we should think it hazardous to neglect entirely the use  
of Mercury. We have some doubt whether in the cure of  
the disease syphilism is always if at all necessary.  
It is probable that the system can be sufficiently under a  
mercurial impression to remove the disease without its wearing  
any thing of the kind on the salivary glands. What we  
know that its showing itself there particularly is any  
other?

*[Faint, illegible handwritten text, likely bleed-through from the reverse side]*

*[Faint, illegible handwritten text visible on the right edge of the page]*

they more than over evidence that the Mercury has  
such a strong influence on the system generally, or  
that the particular circumstances contribute in any degree  
to the restoration of the patient. We have in two  
instances seen pills of the Oxymercurial of Linnæus, given  
in cases of Syphilis that had been protracted for several  
months with complete relief to the patients without its  
making any sensible impression on the salivary glands.

In Syphilitic Rheumatism accompanied by venereal nodes  
we can speak confidently of the virtues of Iodine —  
We have seen two or three cases of the kind which resisted  
every other remedy, soothing but obdurate salivation  
brought up for a considerable length of time & aided  
by the Lister diet drink was confined to the cure.  
Arnold's salivation had been tried several times with-  
out any advantage to the patients —

A case similar to this appears to be the only remedy  
in Syphilitic Rheumatism. When confirmed nothing  
helps than completely revolutionizing the system seems to  
offer any thing like permanent relief.

This image shows a blank, aged, cream-colored page, likely an endpaper or flyleaf of a book. The paper has a slightly textured appearance with some faint smudges and discoloration, characteristic of old paper. There is no text or other markings on the page.

for acute Hepatitis after the usual depleting remedies  
 after bloodletting necessary as a preparation for  
 blood in its chronic state when separation had not  
 actually taken place, a ptyalism seems to be the only  
 resource. but in all other cases we must be governed by  
circumstances. When there was tension in the spleen  
 accompanied by febrile symptoms we should always  
 promote depletion. —

for chronic affections of the chest, particularly those which  
 would lead us to suppose there was danger of phthisis  
 Pulmonalis, we should generally prohibit emaciation the  
 but in confirmed phthisis experience has shown that it  
 is not an appropriate remedy. —

We intentionally omit many diseases to which this remedy  
 might be properly applied. It was an object when we  
 commenced this dissertation merely to give a brief outline  
 of the use of emaciation. We show as nearly as the nature  
 of the subject would allow under what particular circum-  
 stances the medicine should be administered.

It now

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It now only remains for us to mention one amongst  
 many other bad effects resulting from the use of this  
 medicine, & the remedy for it. -

### Chapter II. -

Although we have condemned the indiscriminate use of  
 Mercury in the disease of children, yet we would not  
 be understood condemning it in every instance -  
 The disease of children although generally more simple  
 than those of adults, often requires remedies equally  
 energetic. And it sometimes happens that they cannot  
 be removed without the liberal use of Mercury as for  
 instance for puerile scrophulous - It is well known how  
 extremely difficult it is to induce a salivation in children,  
 & how very untractable & dangerous a salivation is when induced.  
 It is so much so, that many practitioners omit its use  
 entirely, as gargling, mercuriation seem deal its efficacious-  
 ness the more necessary.

It affords me much pleasure to state that Doctor  
 Field of Petersburg Virginia - gentleman of the  
 highest respectability both as a man, & as a physician  
 has discovered by several experiments that when the  
 salivary





Salivary glands, cheeks &c are completely gangrenous, that sometimes afford almost immediate relief. That they sometimes entirely change the features of the case without any loss of substance, so that it is not the case & sloughing takes place, & is infinitely more mild in its character. The rare occurrence of gangrene in adults has prevented his making a trial of the remedy in these cases. Should future experiments prove this to be the fact generally, the discovery will be no inconsiderable acquisition to medical science. —

So: E: Watson

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The first of these is the fact that the  
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Detention

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Trip of Iron  
H. A. Geyer 1823.

